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(71) Applicant (for all designated States except US): **CET TECHNOLOGIES PTE LTD.** [SG/SG]; 100 Jurong East Street 21, Singapore Technologies Building, Singapore 609602 (SG).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **LIU, Jay, Zheyi** [SG/SG]; CET Technologies Pte Ltd., 100 Jurong East Street 21, Singapore Technologies Building, Singapore 609602 (SG).

(74) Agent: **SIM, Andrew, Yuan, Meng**; c/o Shook Lin & Bok, 1 Robinson Road, #18-00, AIA Tower, Singapore 048542 (SG).

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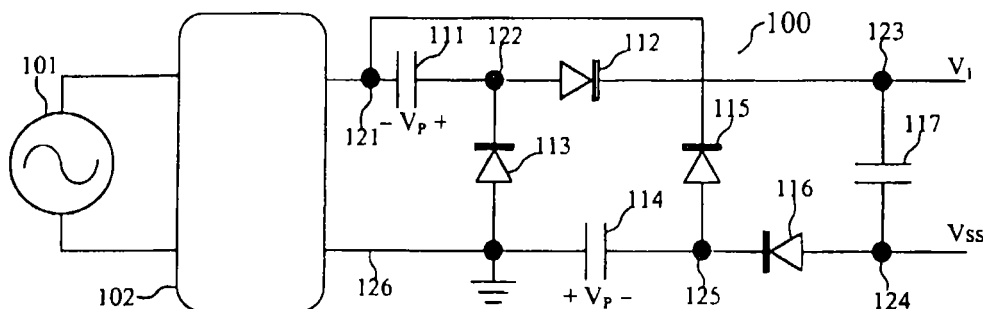
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\*ACTION\*

(54) Title: A RECTIFIER



(57) Abstract: The present invention provides a rectifier for use in a communications device, which is adapted to receive a signal from an interrogator device via antenna. The rectifier includes first and second input terminals (121, 126; 231, 234; 331, 334) coupled to an antenna (101, 201, 301) for receiving the signal, with at least one of the input terminals (126, 234, 334) forms a voltage reference. The circuit includes first and second output terminals (123, 124; 233, 235; 333, 335). First and second clamping circuits are coupled to at least one of the input terminals and the voltage reference, so as to generate first and second clamped signal at respective first and second terminals (122, 125; 232, 236; 332, 336). First and second peak rectifiers are coupled to the first terminal and at least the first output terminal, and the second terminal and at least the second output terminal, respectively. The first peak rectifier rectifies the first clamped signal to generate a first rectified signal at the first output terminal with respect to voltage reference, whilst the second peak rectifier generates a second rectified signal at the second output terminal with respect to voltage reference.

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